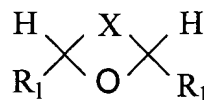
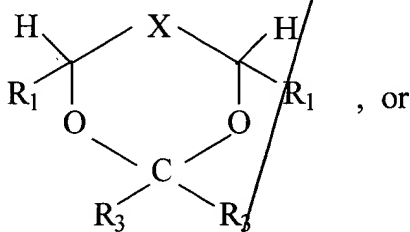
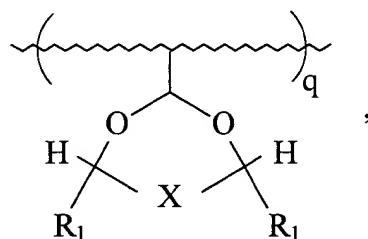
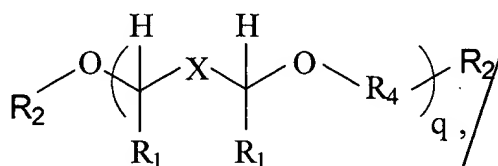


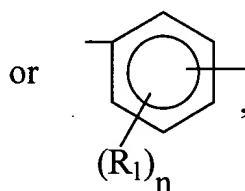
IN THE CLAIMS

Claims 1 to 24 (canceled)

25. (New) A polymer which comprises polyvinyl chloride, polycarbonate, polyurethane, polyethylene, or polypropylene, containing about 0.005 to about 10 phr of a stabilizer having the formula:



- where X is $-R_1C=CR_1-$, $-C\equiv C-$,



- each R is independently selected from hydrogen and R', each R' is independently selected from alkyl from C₁ to C₂₀, aryl from C₆ to C₂₀, alkaryl from C₇ to C₂₀, and aralkyl from C₇ to C₂₀; each R₁ is independently selected from R, OR, RCO, ROCO, ROCO₂, P(R)₂, P(OR)₂,

8 PR(OR), N(R)₂, (R)₂NCO, (R)₂NCO₂, SR, and halogen; each R₂ is independently selected
9 from R, RCO, ROCO, P(OR)₂, Sn(R)_p(OR)_{3-p}, Sn(R)_p(OCOR)_{3-p}, Si(R)_p(OR)_{3-p}, and
10 B(R)_p(OR)_{2-p}, and two R₁ groups, two R₂ groups, or an R₁ group and an R₂ group can be
11 bridged together to form a ring, except that when X is -R₁C=CR₁- at least one R₂ is not
12 hydrogen; each R₃ is independently selected from R', RCO, ROCO, ROCO₂, OR, SR,
13 N(R)₂, OP(R)₂, and OP(OR)₂; R₄ is alkylene from C₁ to C₂₀, arylene from C₆ to C₂₀,
14 (aryl)alkylene from C₇ to C₂₀, (alkyl)arylene from C₇ to C₂₀, alkanediyl from C₁ to C₂₀,
15 (aryl)alkanediyl from C₇ to C₂₀, -CO-(alkylene)-CO- from C₁ to C₂₀, -CO-arylene-CO- from
16 C₆ to C₂₀, -CO-(aryl)alkylene-CO- from C₇ to C₂₀, -CO-(alkyl)arylene-CO- from C₇ to C₂₀,
17 Si(R)₂, SiR(OR), Si(OR)₂, P(OR), B(OR), Sn(R)₂, SnR(OR), or SnR(O-CO-R); and q is 1
18 to 1000.

26. (New) A polymer according to Claim 25 wherein said polymer is polyvinyl chloride.

27. (New) A polymer according to Claim 25 that is has been made into an article that has
been sterilized with gamma radiation.

28. (New) A polymer according to Claim 25 wherein said stabilizer is
cis-4-benzyloxy-2-buten-1-ol.

29. (New) A polymer according to Claim 25 wherein said stabilizer is

cis-1,4-dibenzyloxy-2-butene.

30. (New) A polymer according to Claim 25 wherein said stabilizer is a phthalan.

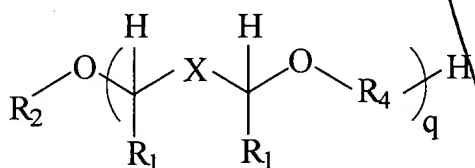
31. (New) A polymer according to Claim 25 wherein X is $-R_1C=CR_1-$.

32. (New) A polymer according to Claim 25 wherein X is $-HC=CH-$.

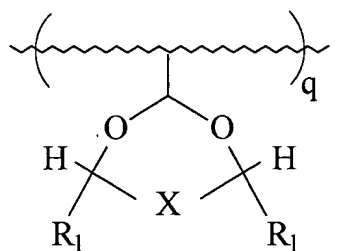
DI
C/

33. (New) A polymer according to Claim 25 where each R is independently selected from hydrogen, alkyl from C_1 to C_{12} , aryl from C_6 to C_{12} , alkaryl from C_7 to C_{12} , and aralkyl from C_7 to C_{12} .

34. (New) A polymer according to Claim 25 wherein said stabilizer has the structure:

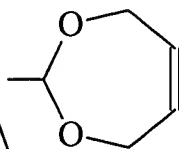


or



where R_4 is alkylene from C_1 to C_8 , (aryl)alkylene from C_7 to C_8 , or $-\text{CO}-(\text{aryl})\text{alkylene}-\text{CO}-$ from C_7 to C_8 ; and q is 1 to 5.

35. (New) A polymer according to Claim 34 wherein said stabilizer has the pendant group



36. (New) A polymer according to Claim 34 that has been made into an article and sterilized with gamma radiation.

37. (New) A polymer according to Claim 25 wherein R is benzyl.

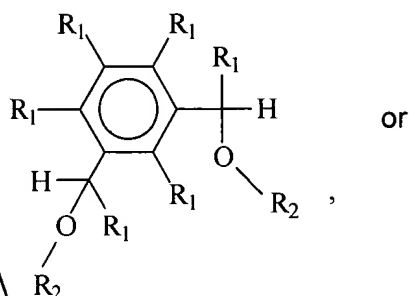
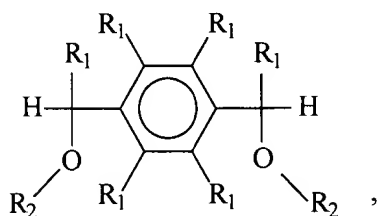
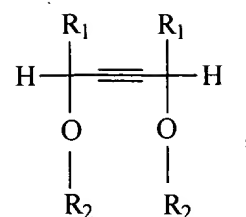
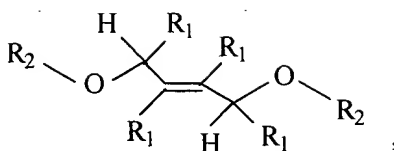
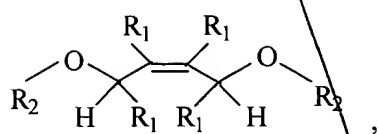
38. (New) A polymer according to Claim 25 wherein R_1 is H.

39. (New) A polymer according to Claim 25 wherein R_2 is R.

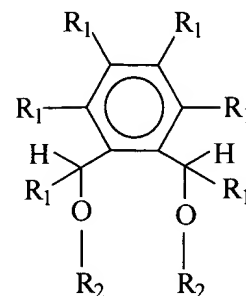
40. (New) A polymer according to Claim 25 wherein R_3 is R.

41. (New) A polymer according to Claim 25 wherein said two R_1 groups that can be bridged together to form a ring are selected from the group consisting of alkylene from C_1 to C_8 , (aryl)alkylene from C_7 to C_8 , and -CO-(aryl)alkylene-CO- from C_7 to C_8 .

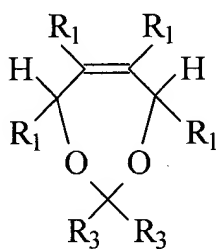
42. (New) A polymer according to Claim 25 wherein said stabilizer has the formula



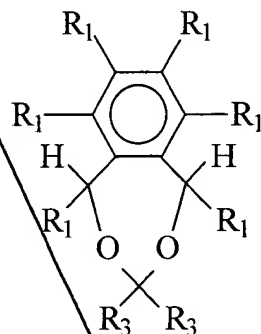
or



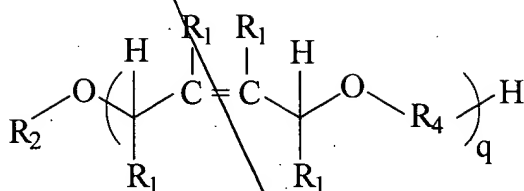
43. (New) A polymer according to Claim 25 wherein said stabilizer has the formula:



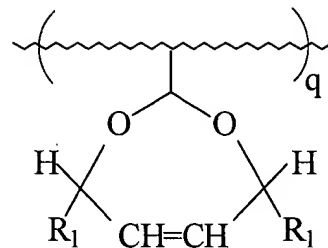
or



- 1 44. (New) A polymer which comprises polyvinyl chloride, polycarbonate, polyurethane,
2 polyethylene, or polypropylene, containing about 0.005 to about 10 phr of a stabilizer
3 having the formula:



or

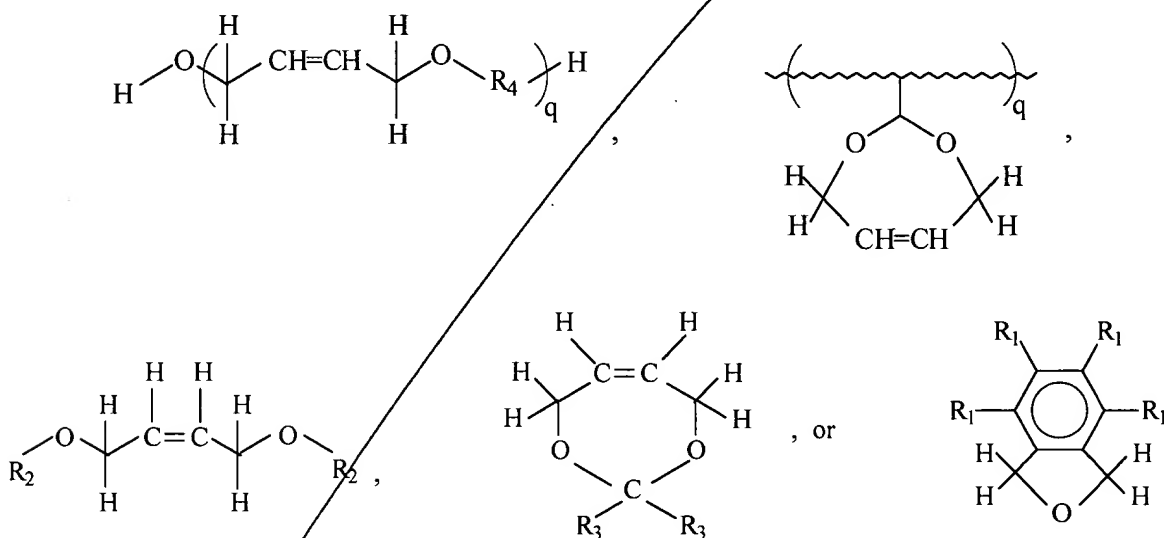


4 where each R is independently selected from hydrogen and R', each R' is independently
 5 selected from alkyl from C₁ to C₂₀, aryl from C₆ to C₂₀, alkaryl from C₇ to C₂₀, and aralkyl
 6 from C₇ to C₂₀; each R₁ is independently selected from R, OR, RCO, ROCO, ROCO₂,
 7 P(R)₂, P(OR)₂, PR(OR), N(R)₂, (R)₂NCO, (R)₂NCO₂, SR, and halogen; each R₂ is
 8 independently selected from R, RCO, ROCO, P(OR)₂, Sn(R)_p(OR)_{3-p}, Sn(R)_p(OCOR)_{3-p},
 9 Si(R)_p(OR)_{3-p}, and B(R)_p(OR)_{2-p}, and two R₁ groups, two R₂ groups, or an R₁ group and an
 10 R₂ group can be bridged together to form a ring, except that when X is -R₁C=CR₁- at least
 11 one R₂ is not hydrogen; R₄ is alkylene from C₁ to C₈, (aryl)alkylene from C₇ to C₈, or -CO-
 12 (aryl)alkylene-CO- from C₇ to C₈; and q is 1 to 5.

45. (New) A polymer according to Claim 44 wherein said polymer is polyvinyl chloride.

46. (New) A polymer according to Claim 45 that has been made into an article and said article has been sterilized with gamma radiation.

47. (New) Polyvinyl chloride, polyurethane, polyethylene, polypropylene, or polycarbonate containing about 0.2 to about 6 phr of a stabilizer having the formula:



where R₁ is hydrogen; one R₂ is R and the other R₂ is R or hydrogen; R₃ is R; R₄ is alkylene from C₁ to C₈, (aryl)alkylene from C₇ to C₈, or -CO-(aryl)alkylene-CO- from C₇ to C₈; R is benzyl; and q is 1 to 5.

48. (New) Polyvinyl chloride according to Claim 47 that has been made into an article and said article has been sterilized with gamma radiation.